

## 59630 Float Sensor Features and Benefits



### Features

- Sensor with integral float magnet attached
- Sensor operates when float rises from end stop position
- Choice of contacts
- Choice of connector
- Customer defined cable length

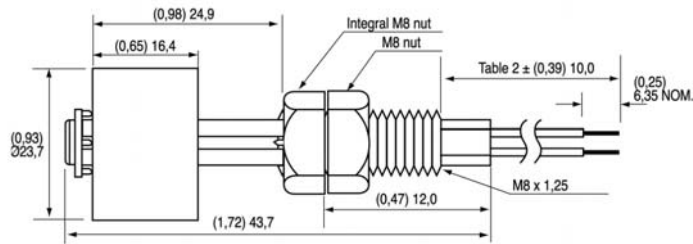
### Benefits

- No standby power required
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination
- Simple installation with M8 thread and nut

### Applications

- Liquid level control
- Air conditioning systems
- Industrial Process Control

## DIMENSIONS (in) mm



| SCHEMATICS | Switch Type |
|------------|-------------|
|            | 1 & 2       |
|            | 3           |
|            | 4           |

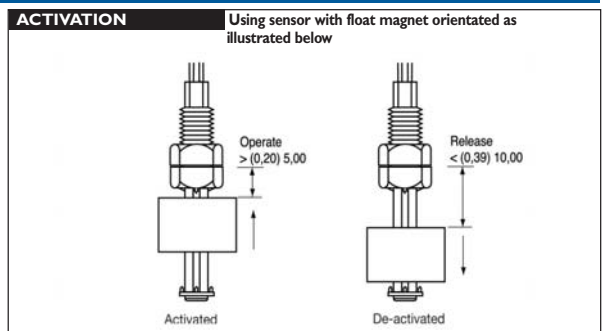
## CUSTOMER OPTIONS - Switching Specifications

| TABLE I      |                  |             | Normally Open    | Normally Open High Voltage | Change Over     | Normally Closed  |
|--------------|------------------|-------------|------------------|----------------------------|-----------------|------------------|
| Contact Type |                  |             |                  |                            |                 |                  |
| Switch Type  |                  |             | 1                | 2                          | 3               | 4                |
| Power        | Power            | Watt - max. | 10               | 10                         | 5               | 10               |
|              | Switching        | Vdc - max.  | 200              | 300                        | 175             | 200              |
| Voltage      | Breakdown        | Vdc - min.  | 250              | 450                        | 200             | 250              |
|              | Switching        | A - max.    | 0.5              | 0.5                        | 0.25            | 0.5              |
| Current      | Carry            | A - max.    | 1.2              | 1.5                        | 1.5             | 1.2              |
|              | Contact, Initial | Ω - max.    | 0.2              | 0.2                        | 0.2             | 0.2              |
| Resistance   | Insulation       | Ω - min.    | 10 <sup>10</sup> | 10 <sup>10</sup>           | 10 <sup>9</sup> | 10 <sup>10</sup> |
|              | Contact          | pF - typ.   | 0.3              | 0.2                        | 0.3             | 0.3              |
| Capacitance  | Operating        | °C          | -40 to +105      | -20 to +105                | -40 to +105     | -40 to +105      |
|              | Storage          | °C          | -50 to +105      | -50 to +105                | -50 to +105     | -50 to +105      |
| Temperature  | Operate          | ms - max.   | 1.0              | 1.0                        | 3.0             | 1.0              |
|              | Release          | ms - max.   | 1.0              | 1.0                        | 3.0             | 1.0              |
| Shock        | 11ms 1/2 sine    | G - max.    | 100              | 100                        | 50              | 100              |
|              | Vibration        | 50-2000 Hz  | 30               | 30                         | 30              | 30               |

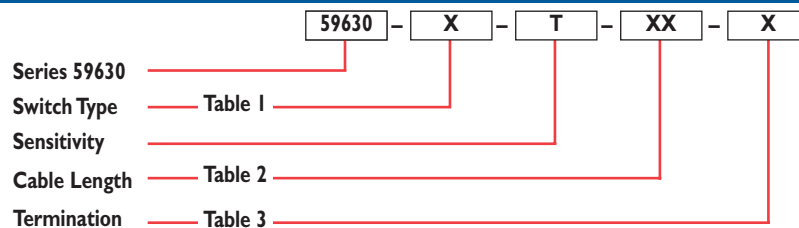
## CUSTOMER OPTIONS - Cable Length and Termination Specification

| TABLE 2                                                |                      |
|--------------------------------------------------------|----------------------|
| Cable Type:-<br>24 AWG 7/32 PVC 105°C<br>UL1430/UL1569 |                      |
| Standard Lengths                                       |                      |
| SELECT OPTION                                          | CABLE LENGTH (in) mm |
| 01                                                     | (3,94) 100           |
| 02                                                     | (11,81) 300          |
| 03                                                     | (19,69) 500          |
| 04                                                     | (29,53) 750          |
| 05                                                     | (39,37) 1000         |

| TABLE 3               |                                           |
|-----------------------|-------------------------------------------|
| Termination Options:- |                                           |
| SELECT OPTION         | DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) |
| A or F                | Tinned or untinned leads                  |
| C                     | 6.35mm fastons                            |
| D                     | AMP MTE 2.54mm pitch                      |
| E                     | JST XHP 2.5mm pitch                       |



## ORDERING INFORMATION



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